

SLID-STATE IMAGE SENSOR AND MANUFACTURE THEREOF

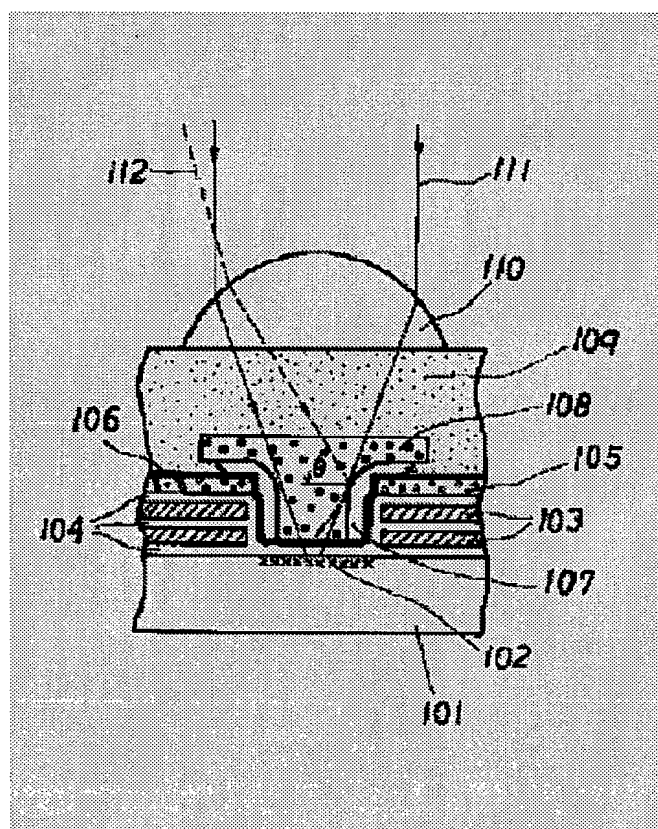
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Abstract of JP6224398

PURPOSE: To provide a solid-state image sensor, in which crosstalk is reduced the sensitivity and image quality are improved with the aperture open.

CONSTITUTION: A solid-state image sensor comprises a transfer electrode 103, a photoelectric member 102 adjacent to the transfer electrode, and a cap layer 108 (optical path). Between the transfer electrode and the cap layer is provided a low-refraction layer 107 whose refractive index is lower than that of the cap layer 108. The low-refraction layer 107 may be formed of air or inactive gas, such as nitrogen, or a resin having a lower refractive index than the cap layer. To reflect incident light 111 or oblique light 112 sufficiently, the layer 107 preferably has a surface roughness smaller than one fourth of the wavelength of the incident light or oblique light.



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